

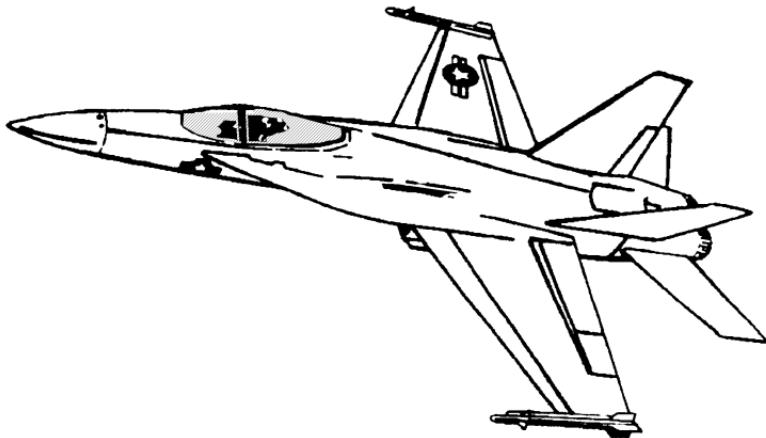
A1-F18AE-LWS-740

Conventional Weapons

CHECKLIST

F/A-18

AN/ALQ-167/AN/AST-6(A)



THIS PUBLICATION SUPERSEDES
A1-F18AE-LWS-740 DTD 1 OCT 1998
AND ALL CHANGES THERETO

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NATEC ELECTRONIC MANUAL

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Insert latest change pages; destroy superseded pages in accordance with applicable regulations.

Dates of issue for original and change pages are:

Basic 0 15 Mar 2002

Total number of pages in this checklist is 16, consisting of the following:

<u>Pg. No.</u>	<u>Chg. No.</u>	<u>Pg. No.</u>	<u>Chg. No.</u>	<u>Pg. No.</u>	<u>Chg. No.</u>
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INTRODUCTION

This checklist contains abbreviated procedures to load and unload the AN/ALQ-167 Countermeasures Set or AN/AST-6(A) Radar Emission Simulating Set on the F/A-18 aircraft.

REQUIRED READING

Loading crewmembers may perform several steps simultaneously provided they do not invalidate or interfere with a preceding or subsequent step and safety precautions are strictly observed.

The steps within this checklist to SAFE racks mean rotation of ground safety or safety stop levers to LOCKED position.

REQUIRED READING (Continued)

Ensure compliance/incorporation of the following Technical Directives, as applicable:

1. None.

RESTRICTIONS:

1. The AN/ALQ-167 and AN/AST-6(A) are non-jettisonable stores.

TEST EQUIPMENT/SPECIAL TOOLS:

1. None.

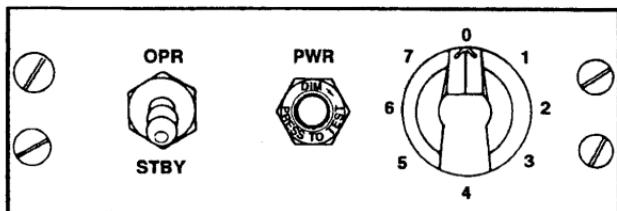
For specific flight authorization refer to the Tactical Manual or flight clearance message. The procedures in this checklist have been verified for the following store:

AN/ALQ-167 Countermeasures Set
AN/AST-6(A) Radar Emission Simulating Set

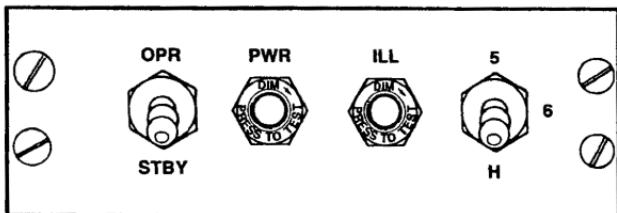
AIRCRAFT PREPARATION/INSPECTION

1. Release and Control System Checks completed()
2. Loaded stations - SAFE()
3. Cockpit control panel installed (Fig. 1)()
4. Parent rack configured to load single store:
 - a. Cartridges removed()
 - b. Swaybraces adjusted:
 - (1) AN/AST-6(A) and AN/ALQ-167 extended position()
 - c. Suspension hooks open()
 - d. Adapter cable installed (Fig. 2)()

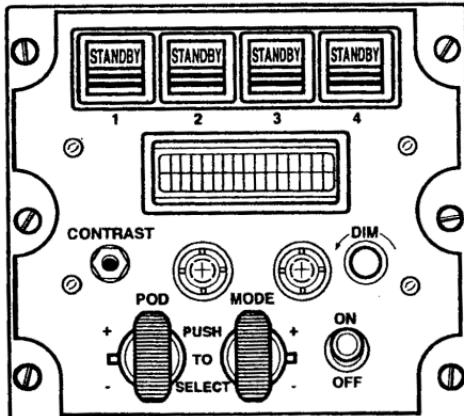
AIRCRAFT PREPARATION/INSPECTION (Continued)



1611AS204 C-11692/ALQ-167(V)
USE WITH TRAINING CONFIGURED AN/ALQ-167(V) POD



1611AS216 C-11693/ALQ-167(V)
USE WITH TACTICAL CONFIGURED AN/ALQ-167(V) POD



CONTROL INDICATOR C-12311/AL (P/N 1611AS5601)
USE WITH AN/AST-6(A)

Figure 1. Cockpit Control Panels

AIRCRAFT PREPARATION/INSPECTION (Continued)

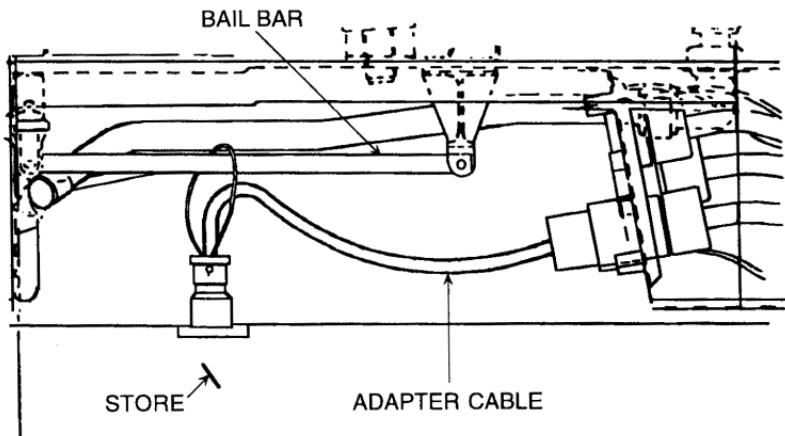


Figure 2. Adapter Cable Installation (Typical)

STORE INSPECTION

1. Assembled; NOT damaged
2. Suspension lugs installed
3. (AN/ALQ-167) Antennas secure; NOT damaged
4. (AN/AST-6(A)) Set pod control panel, station address
to agree with aircraft station being loaded
5. Electrical receptacle clean; NOT damaged
6. Access doors/panels and radome secured

STORE LOADING

A. PREPARATION

1. Aircraft Preparation/Inspection and Weapon Inspection completed()
2. (If applicable) Power removed()
3. Aircraft grounded()
4. Place WEAPON LOADED sign in cockpit()
5. Armament switches positioned (Table 1)()
6. Set proper code in weapon insertion panel (SMP)()
7. AN/AST-6(A) cockpit control panel - PWR OFF()
8. AN/ALQ-167 PWR switch OFF()

B. LOADING

1. Raise store; latch suspension hooks; ensure hooks support store; swaybraces seat()
2. Rotate ground safety handle to LOCKED()
3. Connect adapter cable to store (Fig. 2)()
4. Store Preflight System Check:

WARNING

AN/AST-6(A) OUTPUT LEVEL IS HAZARDOUS TO PERSONNEL WHEN IN RADIATE MODE. PERSONNEL MUST BE FAMILIAR WITH RADIATION HAZARD FOR BOTH PERSONNEL AND ORDNANCE. REMAIN CLEAR OF STORE (50 FEET FORWARD AND 30 DEGREES EITHER SIDE) WHEN STORE IS IN RADIATE MODE.

WARNING

PRIOR TO APPLYING POWER, COCKPIT SWITCHES AND CONTROLS MUST BE READY TO RECEIVE POWER.

- a. Apply aircraft power()

Table 1. Aircraft Armament Switches

PANEL	SWITCH	POSITION
MC/HYD ISOL	MC	NORM
NUC WPN SWITCH	NUC WPN	DISABLE (down position)
GND POWER CONTROL	1 2 3 4 EXT PWR	AUTO AUTO AUTO AUTO OFF
LEFT VERTICAL	SELECT JETT JETT (pushbutton)	SAFE off
MASTER ARM CONTROL	MASTER EMERG JETT (pushbutton)	SAFE Yellow/brass ring not visible
ECM CONTROL (NOTE 1) ICMDS (NOTE 2)	AUX REL ECM DISPENSER MODE SEL RWR	NORM OFF OFF STBY OFF
ANTENNA SELECT CONTROL PANEL (NOTE 3 and 4)	ALE-39 RESET	OFF
EMERGENCY JETTISON	(Rear cockpit) EMERG JETT	Yellow/brass ring not visible
ITALD CONTROL (If installed)	INSTM POWER CIRCUIT BREAKER	OFF RESET
AN/ALQ-167 CONTROL (If installed)	PWR	OFF
MAP GAIN CONTROL	IR COOL	(NOTE 5)
COMMUNICATION	WPN VOL control	LOW
FWD/REAR COCKPIT	All other switches	OFF, SAFE, or NORMAL
NOTE		
<ol style="list-style-type: none"> 1. 161353 thru 164980 2. 165171 and UP 3. 161353 thru 163175 4. 163427 thru 164980 5. Without AIM-9L/M or with AIM-9X -OFF position, and NORM position with AIM-9L/M 		

STORE LOADING (Continued)

NOTE: A MINIMUM OF 4 MINUTES IN STANDBY MODE IS REQUIRED FOR AN/AST-6(A) STORE WARM UP.

b. AN/AST-6(A):

- (1) Place NUC WPN switch to ENABLE()
- (2) Position cockpit control panel switch to STANDBY()

NOTE: AN/AST-6(A) HAS A BUILT-IN SELF TEST WHICH TAKES ABOUT 20 SECONDS TO COMPLETE. WHEN SUCCESSFULLY COMPLETED, THE LED's WILL DISPLAY ALL 8's AND STANDBY LIGHT WILL ILLUMINATE.

- (3) Verify cockpit control panel STANDBY light is on()

NOTE: POD CONTROL PANEL PHASE INDICATOR LIGHT SHOULD BE ON. IF LIGHT IS NOT ON, PHASE SWITCH BEHIND THE AIR PRESSURE GAGE MUST BE CYCLED.

NOTE: TO PLACE THE AN/AST-6(A) IN RADIATE REQUIRES ADDRESSING THE POD BY PRESSING "POD" "0" "2" OR "POD" "0" "8" DEPENDING ON AIRCRAFT STATION OF POD. THEN PRESS "SCN" "0" "1", THEN PRESS THE RAD BUTTON. PRESS THE RAD BUTTON AGAIN TO PLACE THE SYSTEM IN STANDBY.

NOTE: WHEN THE AN/AST-6(A) IS RADIATING, THE READY AND THE RADIATE LIGHTS WILL ILLUMINATE.

- (4) AN/AST-6(A) Place system in radiate()

STORE LOADING (Continued)

- (5) Verify AN/AST-6(A) cockpit control panel RADIATE light is on()
- (6) (AN/AST-6(A)) Press RAD button()
- (7) Position cockpit control panel switch to PWR OFF()
- (8) Place NUC WPN switch to DISABLE()

c. AN/ALQ-167:

NOTE: A MINIMUM OF 3 MINUTES IN THE STANDBY MODE IS REQUIRED FOR AN/ALQ-167 STORE WARM UP.

- (1) Position AN/ALQ-167 PWR switch to STANDBY()
- (2) Open aft section door; verify store STANDBY light on()

CAUTION

IF OPERATE LIGHT COMES ON, THE STORE IS DOWN. SECURE POWER IMMEDIATELY.

WARNING

AN/ALQ-167 OUTPUT LEVEL IS HAZARDOUS TO PERSONNEL WHEN IN OPERATE. PERSONNEL MUST BE FAMILIAR WITH RADIATION HAZARD FOR BOTH PERSONNEL AND ORDNANCE. REMAIN CLEAR OF STORE (15 FEET FWD AND AFT, 3 FEET EITHER SIDE) WHEN STORE IS OPERATING.

- (3) Position AN/ALQ-167 PWR switch to OPERATE()
- (4) Verify AN/ALQ-167 store STANDBY LIGHT remains on; FAULT light off()
- (5) Position AN/ALQ-167 PWR switch to OFF()
- (6) Close aft section door()

d. Remove aircraft power()

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AN/ALQ-167

AN/AST-6(A)

STORE LOADING (Continued)

NOTE: AN/AST-6(A) AND AN/ALQ-167 ARE CAPTIVE CARRIED STORES AND ARE NOT AUTHORIZED FOR JETTISON. DO NOT INSTALL CART-RIDGES.

5. Install cartridge retainers (cartridges NOT installed)()

POSTLOADING INSPECTION

1. Armament switches positioned (Table 1)
2. AN/AST-6(A) cockpit control panel - PWR OFF
3. AN/ALQ-167 PWR switch OFF
4. Rack - SAFE
5. WEAPON LOADED sign in cockpit
6. Swaybraces seated
7. Cartridges NOT installed
8. Adapter cable connected
9. Proper code set in weapons insertion panel (SMP)

STORE UNLOADING

A. PREPARATION

1. (If applicable) Power removed
2. Aircraft grounded
3. Loaded stations - SAFE
4. Armament switches positioned (Table 1)
5. AN/AST-6(A) cockpit control panel - PWR OFF
6. AN/ALQ-167 PWR switch OFF
7. WEAPON LOADED sign in cockpit
8. Disconnect adapter cable from store

B. UNLOADING

1. Raise store
2. Rotate ground safety handle to UNLOCKED
3. Release rack; lower store

